

A technical diagram of a semi-circular structure, possibly a dome or a cross-section of a vessel. The diagram includes the following labeled components and angles:

- 1**: The main semi-circular body.
- 2**: A pentagonal component on the right side.
- 3**: A line segment extending from the center of the semi-circle to the right.
- 4, 5**: A line segment extending from the center of the semi-circle to the left.
- 6**: A line segment extending from the center of the semi-circle to the left, below the horizontal axis.
- 7**: A pentagonal component on the left side.
- 8**: An angle between the horizontal axis and the line segment 6.
- 9, 12**: A vertical dashed line passing through the center of the semi-circle.
- $\alpha 1$** : An angle between the horizontal axis and the line segment 3.
- $\alpha 2$** : An angle between the horizontal axis and the line segment 4, 5.
- β** : An angle between the horizontal axis and the line segment 1.

FIG 2

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